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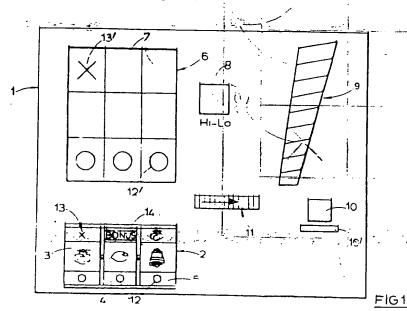
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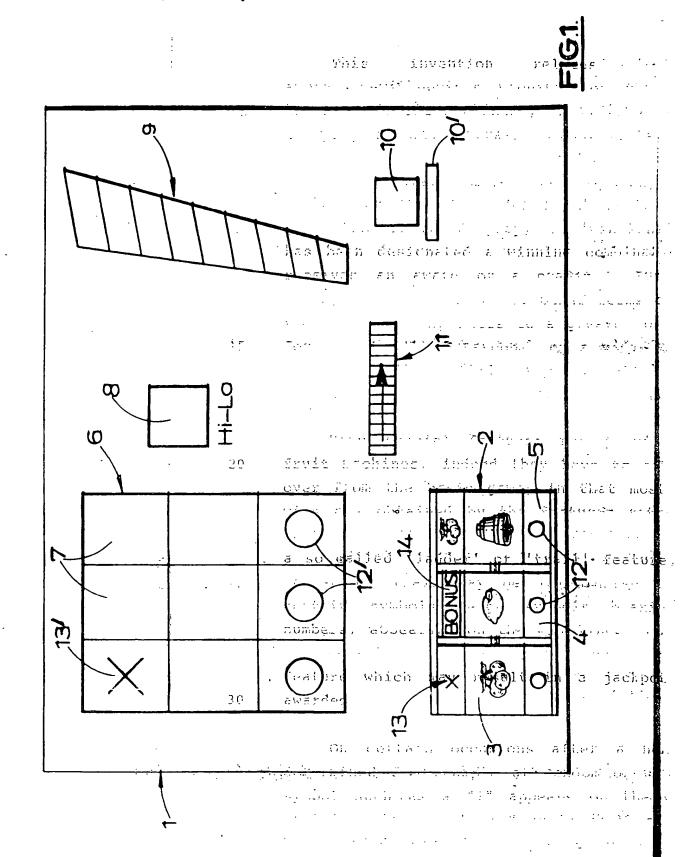
(54) Gaming and amusement machines

(57) A gaming or amusement machine (otherwise known as a fruit' machine) has a first, reel, display (2) comprising a number of reels (3, 4, 5) carrying symbols (12, 13, 14) and a second, matrix, display (6) comprising a grid or matrix, the matrix display being adapted to display only a first symbol (12) and a second symbol (13). The reels carry first and second reel symbols (12 and 13) corresponding to the first and second matrix symbols (12 and 13) and when a first or second reel symbol is visible at the reel display (2) after a ruel spin the corresponding first or second matrix symbol appears in the matrix display in a corresponding position in the matrix. Prizes are awarded for completed lines of symbols in the matrix display. The matrix display may be held over to successive spins of the reels on a random basis. The player may elect to shuffle the symbols on the matrix or change the first symbols to second symbols or vice versa. The machine may also include a skill shot feature 11, a nudge pot counter 10, a higher/lower guess button 8 and a ladder 9 indicating progressive prizes dependent upon completed lines of the same symbol of the matrix. A second reel display carrying only the first and second symbols and blanks may be provided (Figure 2).



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relates benetony gaming theorem invention This amusement-with-prizes machines of the kind generally known as 'fruit machines', in which a number of reels carrying symbols (usually three reels, but sometimes more) are set in rotation and then stop in turn at random intervals and if the resulting combination of symbols on the three (or more) reels appearing on a given line in the display, the 'win line', is one which has been designated a winning combination, the splayer of the splayer receives an award or a credit. Thatead of actual reels, it is known to use other forms of display which simulate rotating reels to a greater or lesser degree, for example the Panascope, or a video screen on which images of the symbols appear. Such machines will hereinafter be referred to as of the kind set forth.

Many special features are provided nowadays in the second fruit machines, indeed they have to some extent taken weeks he over from the basic game, in Sthat most sof the bigger and a companient wins are obtained by the features rather than by the core initial result when the reels first come to a halt. Ín a so called 'ladder' or 'trail' feature, steps in the dominater ladder or trail may be illuminated as a result of certain symbols, e.g. symbols bearing superimposed numbers, appearing on the win line. When the ladder or 'trail' is completed, a jackpot prize or another feature which may result in a jackpot prize may be be completion of & didder or the 30 awarded. iniumination of some symbols in-a ...

On certain occasions after a non-winning game, and a determined for example at random or when a particular of the symbol such as a "?" appears on the win line, a so the called 'skill stop' or 'pseudo skill stop' feature may be provided to assist completion of a ladder or trail.

In a 'skill stop' or 'pseudo skill stop' feature steps in the 'ladder' or 'trail' are illuminated either sequentially along the 'ladder' or 'trail' or for a brief period of time at random positions in the 'ladder' or 'trail' and the player attempts to stop the feature by performing a 'skill stop' operation at the instant when the end step of the 'ladder' or 'trail' illuminated. In a 'bseudo skill is feature the machine itself determines whether or not the end step of the 'ladder' or 'trail' is illuminated, although it appears to "the player that the instant the 'skill stop' operation is performed determines whether or not the trail is completed.

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Amongst the many special features which are provided nowadays in fruit machines, one which has proved popular is the so-called 'nudge' feature, by which the player is sometimes given the opportunity at the end of a game which did not result in a win, to advance one or more of the reels by a single step, or sometimes more than one step, to bring a fresh symbol onto the win line and thereby change what was a losing combination into a winning one. This feature may be offered apparently at random after a nonewinning game, or a number of 'nudges' determined in one of a variety of ways may be awarded as a special feature after completion of a 'ladder' or 'trail'.

One known type of special feature awarded after completion of a 'ladder' for a frantiscitivo ves others illumination of some symbols in a squaber of rows or an columns of symbols representing coins, tokens or nudges and the player is given one or more 50:50 chances town link up' the illuminated symbols by pressing a 'gamble' button. The feature ends when the player has exhausted these chances and he is then awarded as a

prize the total number of coins, tokens or nudges which have been linked together during the feature times in its with a contact that the contact is the contact to the contact that the contact is the contact that the contact th

The aim of the invention is to provide a still further and particularly attractive special feature on these lines.

According to the invention a gaming or amusement-with-prizes machine comprises a first, reel, display comprising a number of reels carrying symbols and a second, matrix, display comprising a grid or matrix, the matrix display being adapted to display a first symbol and a second symbol.

Preferably the matrix has a plurality of display segments, such as squares, and can display first and second symbols simultaneously in different segments.

Preferably at least one, and most preferably each, segment is capable of displaying the first symbol and the second symbol as alternatives the insurance of preferably displays only one symbol at any one time.

A first symbol displayed in segment (can be not to be preferably be changed to the second symbol during the playing of the machine.

The reels may carry first and second reel symbols or other differentiating indiciane corresponding to the first and second matrix symbols the appearance of the first or second reel symbols in the reel display upon a play of the machine resulting in the appearance of corresponding first or second matrix symbols in the matrix.

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We prefer to have a 3 x 3 matrix, and a reel display having three reels with oakcentral bwin bine oand saveing upper and lower adjacentialines visiblenting the reefig the display (so that nine symbols are visible in the reel display) and arrange for a one-to-one correspondênce between the positions in the matrix which show the first or second matrix symbols and the positions in the reel display of the first and second reel symbols or indicia.

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The first and a seconda reel symbols amay substantially the same as, or at least representations of, the first and second matrix symbols.

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game may have a feature whereby upon the winning of the feature all of the first and second matrix symbols displayed at that time in the matrix are changed to the same symbol, which may be the first or second symbol.

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The matrix display may be held and continued overing

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Embodiments of the invention will onow be described to pill way of example only, with reference to accompanying drawings of which:-

Figure 1

shows a display of a first qaming a O's or M's shown in the matrix, Ir machine; and Figure 2 shows laif display liotes as second ligaming the machine. zapaca in kongre co specific - projection i

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The ladder has lwelv

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A fruit machine has a display 1, which is shown in the Figure 1, and (not shown) a Fstart obutton, was cancel from button, hold buttons, nudge buttons, a skill-shot button. a collect button, a qamb1e button,

Table Model (1988)

higher-lower gamble buttons. Some of the buttons may be provided as a single button is erving more of the collecting tunction at different times during the playing of the une proper game.

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three reels, 3, 4 and 5 showing various reel symbols, a matrix display 6 comprising a 3 x 3 grid of nine segments 7, a fourth reel 8 with numbers from 1 to 12 on it, a ladder 9 indicating progressive prizes, a nudge-pot counter 10, and a skill—shot feature 11. The reels 3, 4, 5 carry the normal fruit symbols, plus named first reel symbols of noughts 12 and second reel symbols of crosses 13. Each segment 7 of the matrix display can display a brank, a nought symbol 12 in a cross 13 (comprising a first matrix symbol), or a cross 13 (comprising a second reel symbol).

on any spin of the reels 3, 4, 5 any 0's or x's shown in the nine symbols visible on the reel display 2 produce corresponding 0's or x's with the corresponding positions in the matrix of splay 6; cas shown in Figure 1. The symbols displayed in the matrix 6 can be carried to the next play on a random corresponding pseudo-random basis.

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The player will enter the prize ladder 9 at a classification level dependent upon the number of complete lines of a classification or X's shown in the matrix, from cone to leight is exercise (if eight lines are possible in the creek/ddsplaysowem manner:—actually prefer to provide a maximum possible score of six lines). The ladder has twelve prize levels. Thus the player enters the ladder 9 at the level daysowem corresponding to the number of the lines completed.

When a line in the matrix is lit the player will have the option of (i) collecting the win corresponding to the relevant entry in the prize ladder 6 by pressing the collect button;

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(ii) pressing the higher or lower button to spin the fourth reel, reel 8. If the guess that the next number at which the reel 8 comes to rest will be higher or lower than the previous number is correct the player advances one position up the prize ladder. If the guess is wrong a 'lose' lamp is illuminated and the feature is terminated. The player either automatically collects the prize on the ladder at which he already stands, or loses everything (the machine can of course be adapted to provide either result).

Pressing the higher/lower button also automatically adds a random/pseudo-random number of nudges to the nudge-pot indicator 10.

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option when an 'exchange would ghandlow is illuminated. If taken, the nudge pot will automatically step the reels 3, 4, 5 to the west possible win for the given number of nudges...

(#) Skill shot.

the player will be stored to their

The reels 4, 5, 6 marsocsneither as bonus symbol 14. When this appears on the central win line of the reel display the playernis awarded one of the following in a random/pseudo-random manners amum position.

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(a) Shuffle. The player may elect to shuffle the lit symbols in the matrix 6. The same number of 0's and X's as are already lit will be shuffled. The

player may decline this option by pressing the cancel putton. The cancel on the same that the table \mathbb{R}^3

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(b) All Crosses. All of other symbols of mother inner matrix 6 which are lit change to crosses or stay as crosses, as appropriate. (It could also be arranged in a modification for all the symbols to be presented as O's, or both the O's and X's could change to the same third symbol).

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- will flash at random, with 0's and X's appearing at random for any particular unlit segment. The player is given a skill or pseudo-skill chance to stop a symbol in one of the segments. A chance of repeat shots is provided on a random basis.
- one above the win line and one below the win line and the player will be able to hold any of the nine symbols originally in view on the win line, or a new symbols the upper and lower adjacent line. He can in this way enter a O or a X in the upper or lower row of the matrix 6.

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(e) Skill shot. A randomly chosen unlit segment of the shots either X or O all of the time; or randomly X or O, and the player has the chance to enter the symbol in that segment if he stops the skill-shot feature 11. 30 or O, at its maximum position. The player is successful 200. It may be become more difficult to stop the skill-shot at its maximum as successive skill-shots take place, or as the matrix fills up.

one or more lines is all X's or O's the player enters the ladder 9 at the level corresponding to the total number of completed lines.

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It will be appreciated that each of the features

(i) to (iii) and (a) to (e) is independent of the others and any could be modified, omitted or replaced with another feature. Features (b), (c) and (e) are considered of particular importance to the dual image matrix 6 since they can use the ability of the segments to show X's or O's.

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It is also clear that the symbols in the matrix display do not have to be exactly the same as those in the reel display. For example they could have number 1's and number 2's, or two or more different reel

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A second machine, the display 20 of which is shown in Figure 2, is similar in many ways to the first machine and comprises a first reel display 21, a second-reel display 22, a matrix display 23, and a points indicator 24.

symbols may represent the same matrix symbol he was a matrix

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The first reel display 21 has three reels 25, 26, 27 each having a series of symbols including a variety of fruit symbols and V's and shields 29. The matrix display has nine segments 30 each of which can display a V 28' or a shield 29'. V's and Shields are entered into the matrix 23 in corresponding positions to their appearance in the first reel display 21.

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The second reel display 22 has three reels 31, 32, 33 which carry only three types of symbol, V's,

Shields, and blanks (alternatively there may be no blanks). The player decides to play the

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When a player plays the 'basic' game the reels 25, 26, 27 spin and the normal prizes for a winning combination in the pay line apply. In addition, any V's or Shields in view in the first reel display 21 are transferred to the matrix display 23. The player is awarded prizes for the number of lines of all V's or all Shields shown in the matrix (prizes for a 'mixed' line may also be given if desired).

The player has the choice of either taking his prize for the number of lines achieved and collecting it; taking the award and gambling it; taking the award and transferring it to a Club Meter; or leaving the award in the hope that the matrix will be carried on to the next game and that he will win an even bigger award in the next game.

in view.

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A player may also be awarded points for the number of shields or V's in view, irrespective of their position in the matrix. A table of possible point allocations is given below:

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No. of Symbols in view Award (mixed symbols)

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When a player has won four points or more he can chose to (i) collect the win or (ii) play a 'second'

V and Shield game on the second reel display 22. the player decides to play the V and Shield game the player chooses a stake from a variety of options (for example 4, 8 or 16 points) and the stake is deducted from either the Club Meter or the monetary credits the player has in the machine. The player then chooses to be either Shield or V and gambles his stake on the number of his chosen symbols which appear in the second reel display 22. The more of his chosen symbols are in view the more he wins, and the greater the stake the more he wins for any particular number of symbols For example, if three of the chosen symbols are in view the player may win 4, 12, or 24 points depending upon whether he staked 4, 8 or 16 points. The player may not win at all if he stakes 4 or 8 points and only 2 chosen symbols are presented in the second reel display, winning, for example, only 8 points for a 16 point bet. A maximum winnings may be provided so that for example seven chosen symbols in view may pay the same, maximum, payout irrespective of whether 8 or 16 points were staked inc andpoint distribus only one symbol st

It will be appreciated that references to reels include equivalents such as electronically generated images of reels.

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CLAIMS WAS A.

of reels carrying symbols and a second, matrix, display comprising a grid or matrix, the matrix display being adapted to display a first symbol and a second symbol.

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2. A machine according to claim 1 in which the matrix display has a plurality of display segments and is capable of displaying first and second symbols simultaneously in different segments.

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3. A machine according to claim 2 in which at least one segment is capable of displaying the first and second symbols as alternatives.

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4. A machine according to claim 3 in which said one as segment displays only one symbol at anytone time.

each segment of the matrix display is capable of displaying the first and second symbols as alternatives.

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6. A machine according to any one of claims 2 to 5 in which a first symbol displayed in [a] segment can be playing of the machine.

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7. A machine according to any preceding claim in which the reels carry first and second reel symbols or other differentiating indicia corresponding to the first and second matrix symbols, the appearance of the first or second reel symbols in the reel display upon a

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play of the machine resulting in the appearance of corresponding first or second matrix symbols in the matrix.

- 8. A machine according to claim 7 which comprises a 3 x 3 matrix display, and a reel display having three reels with a central win line and upper and lower adjacent lines visible in the reel display, the arrangement being such that there is a one-to-one correspondence between the positions in the matrix which show the first or second matrix symbols and the positions in the reel display of the first and second reel symbols or indicia.
- 9. A machine according to claim 7 or claim 8 in which the first and second reel symbols are substantially the same as, or at least representations of, the first and second matrix symbols.
- 10. A machine according to any preceding claim which is provided with a feature such that upon the winning of the feature all of the first and second matrix symbols displayed at that time in the matrix are changed to the same symbol, which may be the first or second symbol.
 - 11. A machine according to any preceding claim in which the matrix display may be held and continued over to successive spins of the reels.
 - 12. A gaming or amusement-with-prizes machine substantially as herein described with reference to Figure 1.

13. A gaming or amusement-with-prizes machine substantially as herein described with reference to Figure 2.

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